

Dice, James F.

PROPOSED MEETING TOPICS AND POSSIBLE SPEAKERS FOR THE 1995 FASEB
MEETING ON UBIQUITIN AND INTRACELLULAR PROTEIN DEGRADATION

SESSION 1: FUNCTIONS OF THE UBIQUITIN SYSTEM, PART 1

Chair: J. Fred Dice

Avram Hershko
(Technion, Israel)

Overview of the Ubiquitin System

Mark Hochstrasser
(Univ. Chicago)The DQA Pathway: Ubiquitin-dependent
Degradation of the Yeast MAT α 2
RepressorArthur Haas
(Med. College
Wisconsin)Functions for Ubiquitin Cross-Reacting
Protein

BREAK

Noriyuki Sagata
(Kuruno University,
Fukuoka, Japan)

Signals for c-Mos Degradation

Lena Claesson-Welsh
(Ludwig Institute,
Sweden)Ubiquitination of the Platelet-Derived
Growth Factor Receptor

SESSION 2: FUNCTIONS OF THE UBIQUITIN SYSTEM, PART 2

Chair: Arthur Haas

Kenneth Rock
(Harvard Univ.)Roles of Ubiquitin in Antigen
ProcessingSandra Lemmon
(Case Western
Reserve)

Roles of Ubiquitin in Vesicular Transport

Mark Kirschner
(Harvard Univ.)Roles of Ubiquitin in Cell Cycle
Regulation

BREAK

Wolf Kanau
(Univ. of Bochum,
Germany)Roles of Ubiquitin in Peroxisome
BiogenesisWolfgang Baumeister
(Max Plank Institute,
Germany)

Ubiquitin in Archaeobacteria

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SESSION 3: ENZYMOLOGY OF THE UBIQUITIN SYSTEM: PART 1.

Chair: Aaron Ciechanover

Cecil Pickart Ubiquitin Conjugating Enzymes
(SUNY, Buffalo)

Stephan Jentsch Cellular Functions of Ubiquitin
(Univ. of Tübingen, Conjugation
Germany)

Richard Vierstra Structure and Function of Plant Enzymes
(Univ. Wisconsin-) Involved in Ubiquitin Conjugation
Madison)

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Keith Wilkinson Ubiquitin C-Terminal Hydrolases
(Emory Univ.)

William Cook Structural Analysis of the Ubiquitin
(Univ. Alabama) System

SESSION 4: ENZYMOLOGY OF THE UBIQUITIN SYSTEM, PART 2.

Chair: Avram Hershko

George DeMartino Structure and Function of the 26S
(Univ. of Texas) Proteasome

Martin Rechsteiner Assembly of the 26S Proteasome
(Univ. of Utah)

Clive Slaughter Processivity in Ubiquitin-Dependent
(Univ. of Texas) Proteolysis

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Joseph Etlinger Phosphorylation of Proteasome Subunits
(NY Med. College)

Aaron Ciechanover Novel Enzymes of Ubiquitin Conjugation
(Technion, Israel) and Degradation

SESSION 5: ENZYMOLOGY OF THE UBIQUITIN SYSTEM, PART 3

Chair: Stephan Jentsch

Alexander Varshavsky New Aspects of the N-End Rule
(Caltech)

Michael Ellison Mechanisms of Ubiquitin Conjugation
(Univ. of Alberta, Canada)

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Daniel Finley
(Harvard Univ.)

Signals for Ubiquitination within
Protein Substrates

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Peter Kloetzel
(Univ. of Heidelberg,
Germany)

Molecular Analysis of Functions of the
19S and 26S Proteasome

Alan Schwartz
(Washington Univ.)

E1 Ubiquitin Activating Enzymes in
Mammalian Cells

SESSION 6: PROTEIN DEGRADATION WITHIN ORGANELLES

Chair: Keith Wilkinson

J. Fred Dice
(Tufts Univ.)

Selective Transport of Proteins into
Lysosomes

Carolyn Suzuki
(Basel Univ.)

Requirement for Yeast LON for
Intramitochondrial Proteolysis and
Maintenance of Respiration

Robert Simoni
(Stanford Univ.)

Protein Degradation in the Endoplasmic
Reticulum

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James Hare
(Univ. of Oregon)

Degradation of Membrane Proteins

William Dunn
(Univ. Florida)

Ubiquitination and Autophagy

SESSION 7: PROTEIN DEGRADATION IN PROKARYOTES

Chair: Cecile Pickart

Fred Goldberg
(Harvard Univ.)

Mechanism of action of the lon protease
in *E. coli*

Michael Maurizi
(NCI-NIH)

ATP-Dependent Proteolysis in *E. coli*

Maciej Zylicz
(Univ. Gdansk)

Proteolysis by the Clp Protease Family

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Michael Sherman
(Harvard Univ.)

Chaperones that Stimulate Proteolysis in
E. coli

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John Tobias The N-end Rule in *E. coli*
(Mt. Sinai Med. Sch.)

SESSION 8: NEW FRONTIERS IN UBIQUITIN RESEARCH, PART 1
Chair: J. Fred Dice

(Oral Presentations of Selected Poster Submissions)

SESSION 9: NEW FRONTIERS IN UBIQUITIN RESEARCH, PART 2
Chair: Arthur Haas

(Oral Presentations of Selected Poster Submissions)